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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/519,579	06/13/2005	Walter Trakowski	HM-612PCT	2489
40570 FRIEDRICH I	7590 02/17/2010 KUEFENER		EXAMINER	
317 MADISON AVENUE, SUITE 910)	WALTERS J	R, ROBERT S	
NEW YORK, NY 10017			ART UNIT	PAPER NUMBER
			1792	
			MAIL DATE	DELIVERY MODE
			02/17/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/519 579 TRAKOWSKI ET AL. Office Action Summary Examiner Art Unit ROBERT S. WALTERS JR 1792 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 13 November 2009. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)

1) Notice of Draftsperson's Patient Drawing Review (PTO-948)

2) Notice of Draftsperson's Patient Drawing Review (PTO-948)

3) Interview Summary (PTO-413)

Paper No(s)/Mail Date

5) Notice of Informal Patient Artification

Paper No(s)/Mail Date

6) Other:

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DETAILED ACTION

Status of Application

Claim 1 is pending and presented for examination.

Reopening of Prosecution

In view of the appeal brief filed on 11/13/2009, PROSECUTION IS HEREBY REOPENED. A new ground of rejection is set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37
 CFR 1.113 (if this Office action is final); or,

(2) initiate a new appeal by filing a notice of appeal under 37 CFR 41.31 followed by an appeal brief under 37 CFR 41.37. The previously paid notice of appeal fee and appeal brief fee can be applied to the new appeal. If, however, the appeal fees set forth in 37 CFR 41.20 have been increased since they were previously paid, then appellant must pay the difference between the increased fees and the amount previously paid.

A Supervisory Patent Examiner (SPE) has approved of reopening prosecution by signing below:

/Michael Barr/

Supervisory Patent Examiner, Art Unit 1792.

Response to Arguments

Applicant's arguments, see appeal brief, filed 11/13/2009, with respect to the rejection(s) of claim(s) 1 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Cantacuzene (U.S. Pat. No. 6224692).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- Determining the scope and contents of the prior art.
- Ascertaining the differences between the prior art and the claims at issue.
- Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later

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invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

 Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cantacuzene (U.S. Pat. No. 6224692) in view of Sander et al. (U.S. Pat. No. 4228200).

Regarding claim 1, Cantacuzene teaches a method comprising guiding a metal strip through a furnace snout immersed in the metal bath and guiding the metal strip around a deflecting roller in the metal bath, such that the metal strip emerges from the metal bath at the top (abstract and Figure 1). Cantacuzene further teaches having argon present in the furnace snout above the metal bath that will serve as an isolating gas (abstract and column 1, lines 5-18) with hydrogen to provide a non-oxidizing environment. Cantacuzene fails to explicitly teach using argon with admixtures of butane and/or propane as the isolating gas.

However, Sander teaches a method for controlling the metal coating of strips (abstract) in a metal bath, which may be a zinc bath (column 6, lines 24-27). Sander teaches the use of an atmosphere adjacent to the surface of the metal bath introduced across the width of the bath which is non-oxidizing and unreactive with the molten metal, which may be butane or propane (column 8, lines 29-38). Sander teaches that this metal bath serves to maintain the bath surface in a substantially clean condition (column 8, lines 52-56).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify Cantacuzene's method by utilizing argon with admixtures of propane and/or butane as an isolating gas, as is disclosed by Sander. One would have been motivated to make

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this modification as one of ordinary skill in the art could have additionally added either butane or propane to Cantacuzene's argon/hydrogen gas with a reasonable expectation of success (note that both Cantacuzene and Sander teach the use of their gases over surfaces of molten zinc baths) and the predictable result of providing an isolating gas to suppress evaporation of zinc above the metal bath. Furthermore, one would have been motivated to make this modification as Sander teach that their gases will also provide a non-oxidizing environment above the zinc (see Sander at column 8, lines 36-37 and 52-56), therefore helping to alleviate zinc oxidation and deterioration of the zinc melt in the tank.

Conclusion

Claim 1 is pending.

Claim 1 is rejected.

No claim is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ROBERT S. WALTERS JR whose telephone number is (571)270-5351. The examiner can normally be reached on Monday-Friday, 8:00am to 5:00pm EST

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr can be reached on (571)272-1414. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Michael Barr/ Supervisory Patent Examiner, Art Unit 1792

/ROBERT S. WALTERS JR/ February 12, 2010 Examiner, Art Unit 1792